

Central Plateau Remediation Project

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233-S Building Activities



OVERVIEW

The Central Plateau Remediation Project (CP) is responsible for work scope included in Project Baseline Summaries (PBSs) RL-CP01, *200 Area Remediation*; RL-RC06, *300 Area Facility Transition*; RL-RS01, *South Hanford Industrial Area*; RL-SC01, *Near Term Stewardship*; RL-SS03, *Groundwater Management and Monitoring*; and RL-SS04, *Groundwater Vadose Zone Integration*.

- PBS RL-CP01, *200 Area Remediation*, consists of Project Management and Support, CP Facility Surveillance and Maintenance (S&M), CP Facility Transition, CP Facility Decontamination and Decommissioning, the Equipment Disposition Project and CP Waste Site Remediation.
- PBS RL-RC06, *300 Area Facility Transition*, consists of 324 and 327 Facility Safe Shutdown, Miscellaneous Radiological Facilities Deactivation, and Project Management and Support. The FH Contract includes these activities through July 23, 2003.
- PBS RL-RS01, *South Hanford Industrial Area*, consists of Facility Closure, Waste Site Remediation, Facility and Waste Site Surveillance and Maintenance, and Project Management and Support.
- PBS RL-SC01, *Near Term Stewardship*, consists of Stewardship Records/Information Management and Stewardship Strategic Planning and Requirements.
- PBS RL-SS03, *Groundwater Management and Monitoring*, consists of Long Term Monitoring, Groundwater Management and Monitoring, 100/200 Area Groundwater Remediation, Eliminate Artificial Recharge Conditions, and Project Management and Support.
- PBS RL-SS04, *Groundwater Vadose Zone Integration*, consists of Management and Integration, Science and Technology, System Assessment Capability, and Characterization.

NOTE: Unless otherwise noted, all information contained herein is as of the end of May 2003.

NOTABLE ACCOMPLISHMENTS

200 Area Remediation: Completed sludge removal from 233-S Building on June 9, 2003, allowing downgrade of hazard categorization from Category II to Radiological facility. This activity removes the requirement to maintain an authorization basis document and associated controls.

Conducted a Decontamination and Demolition (D&D) vendor's forum on May 16, 2003, attracting 23 participating companies. Results are being incorporated into a Request for Proposal for a D&D subcontractor to perform work at the 233-S Building.

The Engineering Evaluation/Cost Analysis for the 224-B Building "Plug-in" approach was submitted to RL on May 12, 2003. This document/process is key to gaining regulatory approval for the D&D strategy associated with the Plutonium Concentration Facility Performance Incentive (PI S-5).

Groundwater Management and Monitoring: Significant progress was made in resolving RL comments on the U Plant Canyon Disposition Initiative Focused Feasibility Study/Proposed Plan that will lead to approval by mid-June. This is an important PI endpoint document.

The Waste Management Plan for the 200 West Area Carbon Tetrachloride Plume, 200-ZP-1 and 200-PW-1 Operable units, was delivered to RL on June 9, 2003. Based on report findings, verbal agreement was reached with the Environmental Protection Agency (EPA) to reduce one well from the total previously planned at 200-PW-1.

Submitted the Tri-Party Agreement (TPA) milestone M-15-40B, *Remedial Investigation Report for U Plant/Z Ditches*, for regulator review and approval on May 31, 2003.

FY 2003 SCHEDULE/COST PERFORMANCE (\$000)

	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance \$	Schedule Variance %	Cost Variance \$	Cost Variance %	Budget At Completion
RL-RC06 300 Area Facility Transition	18,757	17,304	15,575	-1,454	-8%	1,728	10%	21,554
RL-RS01 South Hanford Industrial Area Clean Up	170	144	111	-26	-18%	33	23%	253
RL-CP01 200 Area Remediation	21,061	19,433	21,727	-1,628	-8%	-2,294	-12%	30,529
RL-SC01 Near Term Stewardship	1,672	1,458	1,401	-215	-15%	56	4%	2,519
RL-SS03 Groundwater Management & Monitoring	13,296	12,357	11,523	-939	-8%	834	7%	22,283
RL-SS04 Groundwater/Vadose Zone Protection	2,349	2,152	2,047	-197	-9%	105	5%	3,347
Total Central Remediation Project	57,304	52,846	52,385	-4,458	-8%	462	1%	80,485

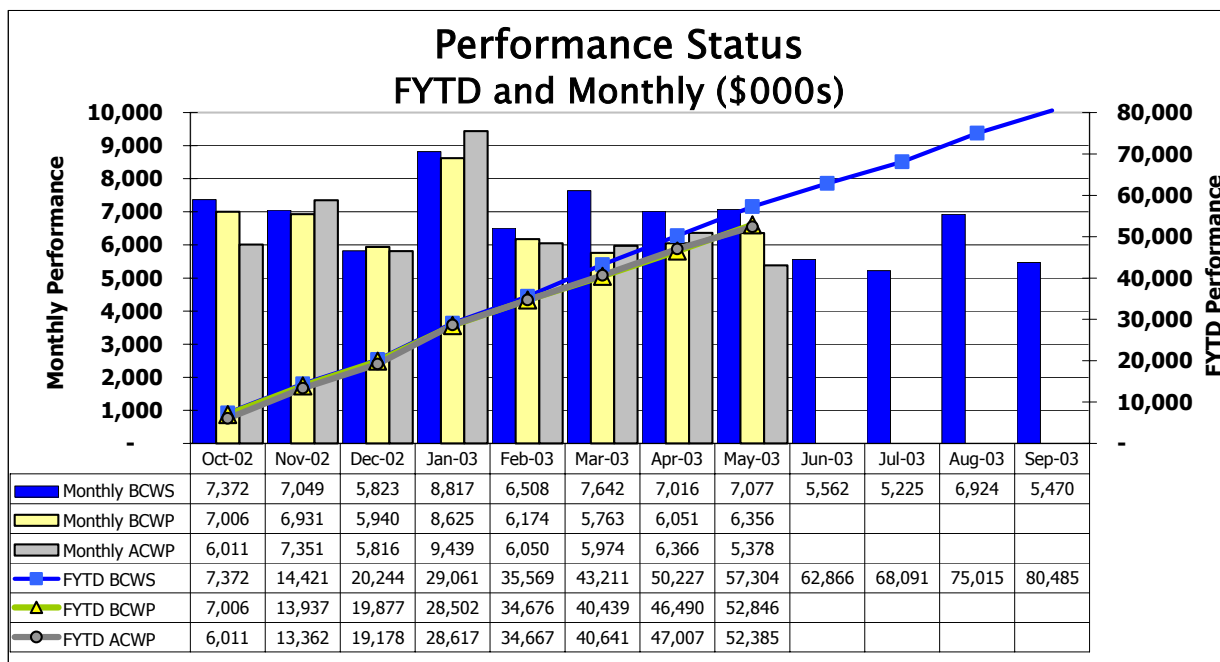
NOTE: FH contract only includes PBS RL-RC06, *300 Area Facility Transition* work scope through July 23, 2003

Schedule Performance (-\$4,458K): The unfavorable schedule variance for PBS RL-RC06, *300 Area Facility Transition*, is due to work scope at the 324 facility that is not related to minimum safe facility status (such as clean out of the Shielded Maintenance Facility, B/D Cell equipment size reduction and waste disposal) that has been placed on hold to allow for the reallocation of resources to support higher priority work. These activities will be deleted from the baseline upon approval of BCR FH-2003-014, *R1 FY 2003 Funding Reductions*, which is expected mid-June. Additionally, there was a delay in finalizing the design of the 324 Liquid Waste Handling System and commencement of system fabrication by a subcontractor.

The unfavorable schedule variance for PBS RL-CP01, *200 Area Remediation*, is primarily reflective of the extensive delays in 233-S Building pre-demolition activities. A change to the D&D approach is being formulated/reviewed and additional resources are being directed to finish the project in this fiscal year. Additional behind-schedule status has been experienced in the characterization of 200 Area Waste Sites and completion of well drilling activities. The majority of these activities will be completed by the end of the fiscal year, with some work carried into FY 2004.

FY 2003 SCHEDULE/COST PERFORMANCE (\$'000) (CONT)

Cost Performance (\$462K): The cost variance is within established thresholds at the project level. The favorable cost variance for PBS RL-RC06, *300 Area Facility Transition*, is primarily due to actual labor costs being lower than planned due to reallocation of resources to support higher priority projects. The unfavorable cost variance for PBS RL-CP01, *200 Area Remediation*, is primarily due to the inability to perform 233-S Building demolition per the aggressive open-air method planned in the baseline.



MILESTONE ACHIEVEMENT

PBS	MSN	Title	Type	Due Date	Actual Date	Forecast Date	Status/Comments
RL-CP01	TRP-03-203 M-15-41B	Submit 200-TW-1 and 200-TW-2 OU Remedial Investigation Report to EPA and Ecology	TPA	10/30/02	10/23/02		Completed ahead of schedule
RL-CP01	TRP-03-109 M-24-56	Install Two Additional Wells at SST Waste Management Area TX-TY.	TPA	12/31/02	12/13/02		Completed ahead of schedule
RL-CP01	TRP-03-206 M-13-00M	Submit 1 200 NPL RI/FS (RFI/CMS) Work Plan	TPA	12/31/02	12/30/02		Completed ahead of schedule
RL-CP01	TRP-03-209 M-15-38A	Submit 200-CW-1 Gable Mountain Pond/B Pond and Ditch Cooling Water Group Feasibility Study	TPA	3/31/03	3/31/03		Completed on schedule
RL-CP01	TRP-03-212 M-15-40B	Submit 200-CW-5 U Pond/Z Ditches Cooling Water Group Remedial Investigation Report	TPA	5/31/03			On Schedule
RL-CP01	TRP-03-215 M-15-47	Submit a Proposed Plan to EPA and/or Ecology to conduct Remedial Action(s) for Source Control at High-Risk Waste Site(s)	TPA	6/30/03			On Schedule
RL-CP01	TRP-03-218 M-15-39A	Complete Chemical Sewer Group Field Work Through Sample Collection and Analysis	TPA	9/30/03		7/18/03	Forecast ahead of schedule
RL-CP01	TRP-03-224 M-13-00N	Submit 1 200 NPL RI/FS (RFI/CMS) Work Plan	TPA	12/31/03			On Schedule
RL-CP01	TRP-03-239 M-020-00A	Submit Part B Permit Applications or Closure/Post Closure Plans for all RCRA TSD Units Except 216-A-10, 216-A-36B, 216-A-37-1, 207-A South Retention Basin, 216-S-10 Pond, 216-S-10 Ditch, 241-CX-70, 241-CX-71, and 241-CX-72.	TPA	2/28/04			On Schedule
RL-CP01	TRP-03-227 M-15-41C	Submit 200-TW-1 and 200-TW-2 OU Feasibility Study and Proposed Plan to EPA and Ecology	TPA	3/31/04			On Schedule
RL-CP01	TRP-03-230 M-15-39B	Submit 200-CS-1 Chemical Sewer Group Remedial Investigation Report	TPA	5/31/04			On Schedule
RL-CP01	TRP-38-802	Decontaminate and Decommission the 233-S and 233-SA Facilities	RL	6/30/04			On Schedule
RL-CP01	TRP-03-233 M-15-43B	Submit 200-PW-2 OU Remedial Investigation Report Including Past Practice Waste Sites in 200-PW-4 General Process Waste Group	TPA	6/30/04			On Schedule
RL-RC06	TRP-04-901 M-92-15	Complete Removal and Transfer, and Initiate Storage of Phase II 300 Area SCW and Materials	EA	9/30/04	9/19/01		Completed ahead of schedule
RL-RS01	TRP-03-236 M-016-66	Initiate Intermediate Design and Authorization Safety Analysis for Remedial Actions at the 618-10 and 618-11 Burial Grounds	TPA	9/30/04			On Schedule
RL-SS03	TRP-03-106 M-24-00N	Install RCRA Groundwater Monitoring Wells at Rate of up to 50 in CY 2002, if required	TPA	12/31/02	12/9/02		Completed ahead of schedule
RL-SS03	TRP-03-112 M-016-28A	Connection Well 199-K-126 to the 100-KR-4 Pump and Treat Extraction System	TPA	1/15/03	1/13/03		Completed ahead of schedule
RL-SS03	TRP-03-103 M-16-27C	Complete 100-HR-3 Phase III, ISRM Barrier Emplacement	TPA	6/30/03	4/10/03		Completed ahead of schedule
RL-SS03	TRP-03-124 M-24-00O	Install RCRA Groundwater Monitoring Wells at Rate of up to 50 in CY 2003, if required	TPA	12/31/03			On Schedule
RL-SS04	TRP-03-403	Optimization Plan for the Closure of the Central Plateau	RL	9/30/03			On Schedule

FY 2003 FH FUNDS VS FORECAST (\$000)

	Expected Funds	Spend Forecast	Variance
RL-RC06 300 Area Facility Transition	\$ 18,488	\$ 18,547	\$ (59)
Project Completion - Operating	\$ 18,488	\$ 18,547	\$ (59)
RL-CP01 200 Area Remediation	\$ 33,124	\$ 32,871	\$ 253
RL-RS01 South Hanford Industrial Area	\$ 153	\$ 221	\$ (68)
RL-SC01 Near Term Stewardship	\$ 2,439	\$ 2,345	\$ 94
RL-SS03 Groundwater Management & Monitoring	\$ 21,089	\$ 20,465	\$ 624
RL-SS04 Groundwater Vadose Zone Integration	\$ 3,217	\$ 3,223	\$ (6)
Post 2006 - Operating	\$ 60,022	\$ 59,125	\$ 897
Total	\$ 78,510	\$ 77,672	\$ 838

Note: The funds and spend forecast for PBS RL-RC06, *300 Area Facility Transition*, are through July 23, 2003.

ISSUES

233-S Building Decontamination & Demolition: The ability to complete this PI in this calendar year has been jeopardized by several factors requiring a revised plan. The decontamination of the building process cell has required a significantly higher level of effort and resources than originally planned and the removal of materials has lagged while the decontamination and characterization efforts continue. Additionally, the radiological control plan for open air demolition has been rewritten. A plan for recovery will be issued by July 31, 2003.